QUALITY ASSURANCE REPORT/QUALITY CONTROL REPORT

AEE/QA/PR/ 88 /2023-24, DATE: 27/09/2023		
Name of Work	:	Improvements to Roads, Drains and Construction of culverts in Somanna Garden and Surrounding areas in Ward no 11 Byatarayanapura (Estimated cost – 60.00 Lakhs)
Job Code	:	011-23-000012
Bill No.	:	**1st & Final bill. Rs.59,99,120.00 (Including GST)**
Name of Agency	:	**Sri. Sambashiva**
Type of Test Performed	:	Rebound Hammer Test as per IS13311-(2)-1992
Materials on which Tests Was Performed	:	1.RCC Drain Wall (M20) 2.Precast Cover Slab (M15)
Officers present during inspection	:	1. Sri. Praveen AE Ward No 11 2. Sri. Somshekar G L AEE- Kodigehalli Sub Division 3. Sri .K.M.Yadukrishna AEE-Quality Assurance
Project Management Consultants	:	M/s Rudraprasad Consultants
Observations	:	➢ NDT (Rebound hammer test) Test was conducted by Project Management Consultants at random locations in presence of AE ward no – 11 & AEE (Kodigehalli Sub Division) along with AEE – QA. ➢ The Rebound Hammer Test was conducted randomly on RCC Drain Wall (M20), Precast Cover Slab (M15). The readings and results are recorded by the PMC consultants. ➢ The readings of Rebound Hammer Test results are tabulated and analysis of test results done by PMC is here by furnished. ➢ The location wise test results are reproduced in the tables shown below.
Test Locations	:	Location :12th Main Road 4th Cross road, Canara Bank Layout, Sahakar Nagar (RHS Opp to Empty site, LHS Junction, LHS Opp to H No #457)

K.M. Ethirajulu P 27/9/23
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Table-01: Rebound Hammer Test Results

Sl. No.	Member	Member	Rebound Hammer Number	Average reading	Compressive Strength (N/mm2)	Impact Direction
Location : 12th Main Road 4th Cross road, Canara Bank Layout, Sahakar Nagar						
1	RHS Opp to Empty site	RCC Drain Wall (M20)	28	28	22	Horizontal
2			26			
3			28			
4			30			
5			28			
6			28			
1	LHS Junction		28	29	23	Horizontal
2			28			
3			30			
4			28			
5			30			
6			28			
1	LHS Opp to H No #457		28	28	22	Horizontal
2			26			
3			28			
4			30			
5			28			
6			28			
1	RHS Opp to Empty site	Precast Cover Slab (M15)	22	21	17	Vertical Down
2			20			
3			22			
4			20			
5			20			
6			22			
1	LHS Junction		24	22	18	Vertical Down
2			22			
3			20			
4			24			
5			22			
6			20			
1	12th main Road RHS		20	21	17	Vertical Down
2			22			
3			20			
4			20			
5			22			
6			20			
1	LHS Opp to H No #457		22	22	18	Vertical Down
2			24			
3			20			
4			24			
5			22			
6			22			

K.M. Ethelu' P 27/9/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Conclusion:

The file containing **1st&Final Bill** has been submitted for the above work to QA department on **19.07.2023** requesting for spot inspection. Engineers of QA/QC division have visited the work spot on **31.07.2023 & 25.09.2023**

PMC team was instructed to assess the strength of concrete used RCC Drain Wall (M20), Precast Cover Slab (M15) by Rebound Hammer Test. The Rebound hammer test were conducted by PMC in presence of engineer in charge of work.

Engineer in charge of work shall ensure that work executed as per this bill is not claimed in any other bill /work or else Engineer in charge of work shall be held responsible.

From the test results furnished by PMC, it is concluded that the results of the samples collected are in accordance with the standards/ specifications mention in the IRC codes. However, the results submitted by the PMC have been reproduced here with for further needful action. The results checked by QA/QC relates only for item tested in the particular location randomly.

Further, QA/QC directs the PMC and Engineer in-charge of the work that all materials used for the work shall be inspected, tested and accepted as per the relevant specifications before incorporation in the work. The frequencies and methods of sampling and testing materials, including those required for definite purpose and not covered by MORT&H specifications shall be in accordance to the relevant IRC or BIS or AASHTO/ASTM/BS standards in order of priority.

The concerned Engineer in charge of the work shall follow the direction issued by Chief Commissioner Letter number dated 01.08.2022 and 14.09.2022 and take necessary action as appropriate in accordance with the law.

Note:-

This report by QA/QC is pertaining to the work carried out in **1st & Final Bill** only.

Engineer in charge of work shall display details of work, work code, cost of project, start and completion date, and information of Engineer in charge of work with contact numbers at work spot.

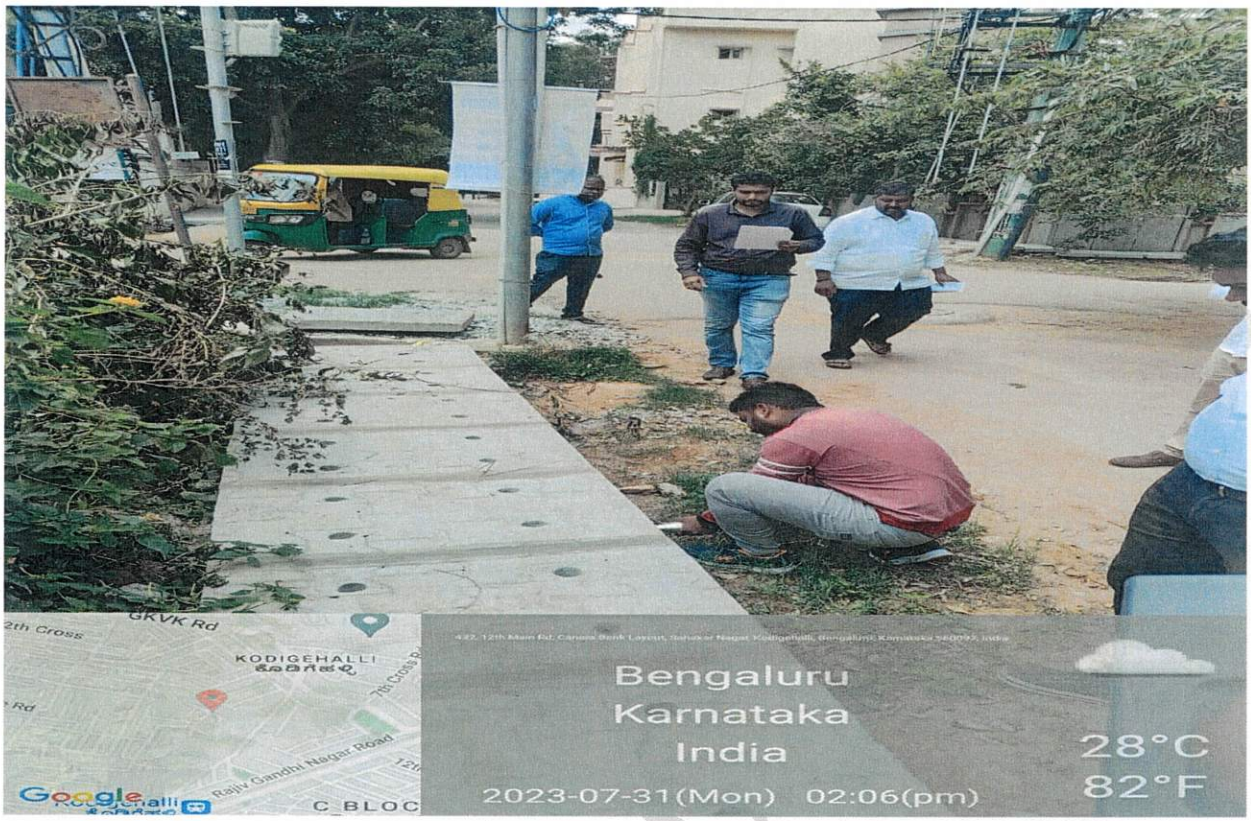
Engineer in charge of work and Agency shall ensure that if any damages or defects occur pertaining to the executed work within the Defect Liability period (DLP), The same shall be rectified immediately on top priority without fail.

Engineer in charge of work shall ensure that any changes/ modification/change in location in the sanctioned estimate to be got approved by competent authority.

K.M. 27/9/23

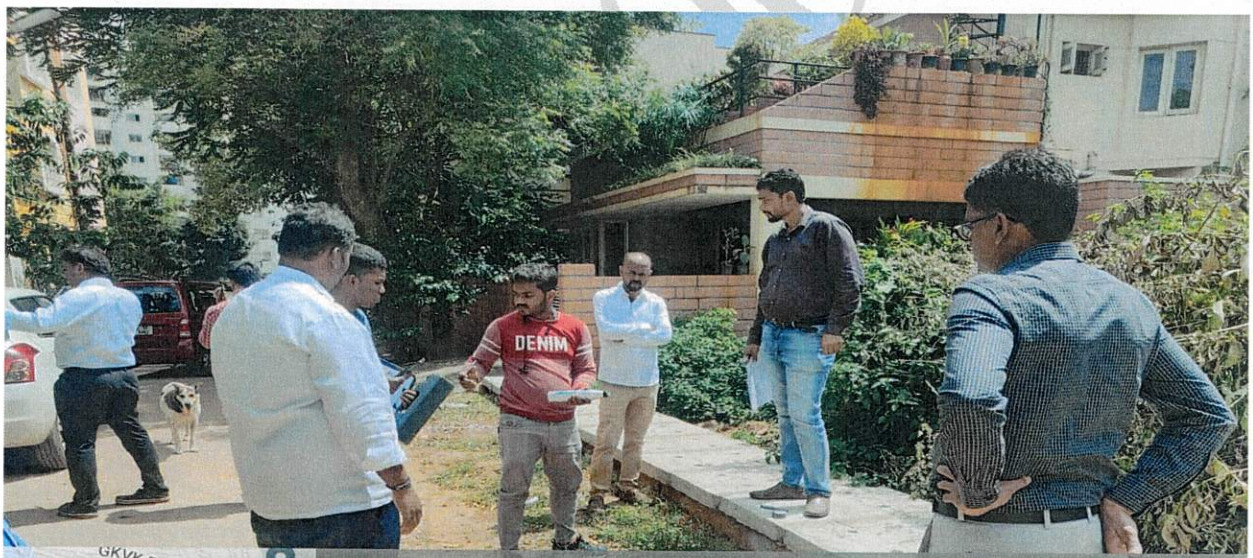
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Location :12th Main Road 4th Cross road, Canara Bank Layout, Sahakar Nagar (RHS Opp to Empty site, LHS Junction, LHS Opp to H No #457)



27/9/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಮಟ್ಟನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೆಂಗಳೂರು ಪೂರ್ವ ವಿಭಾಗ

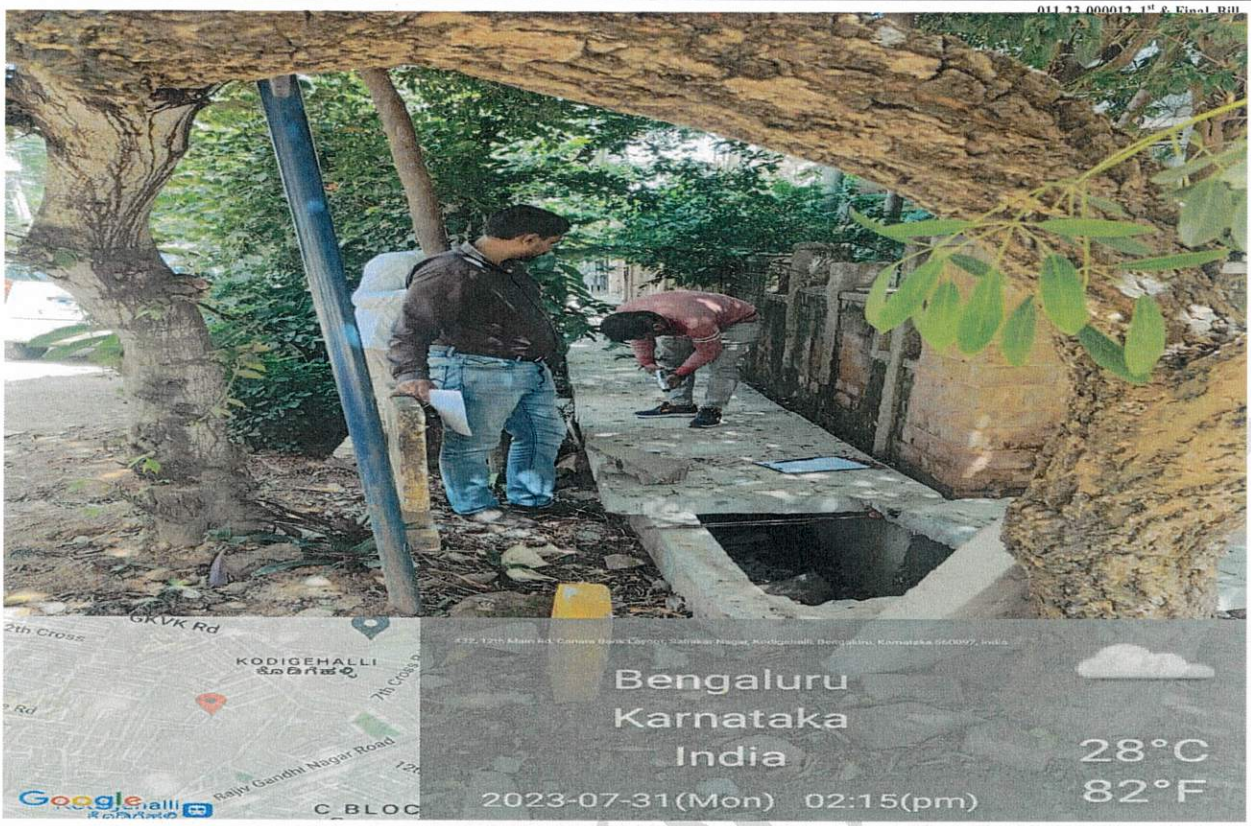


Km. ಪಿ 27/9/23

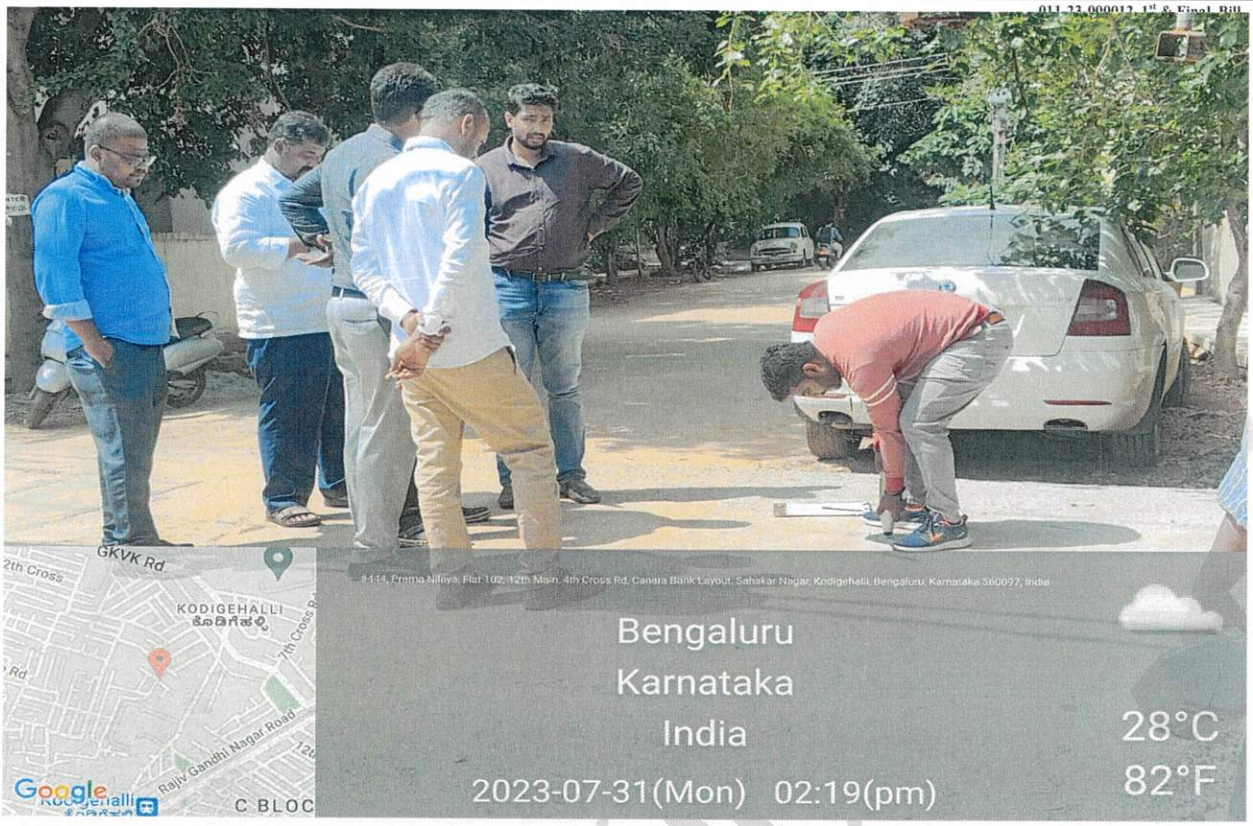
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರಪಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

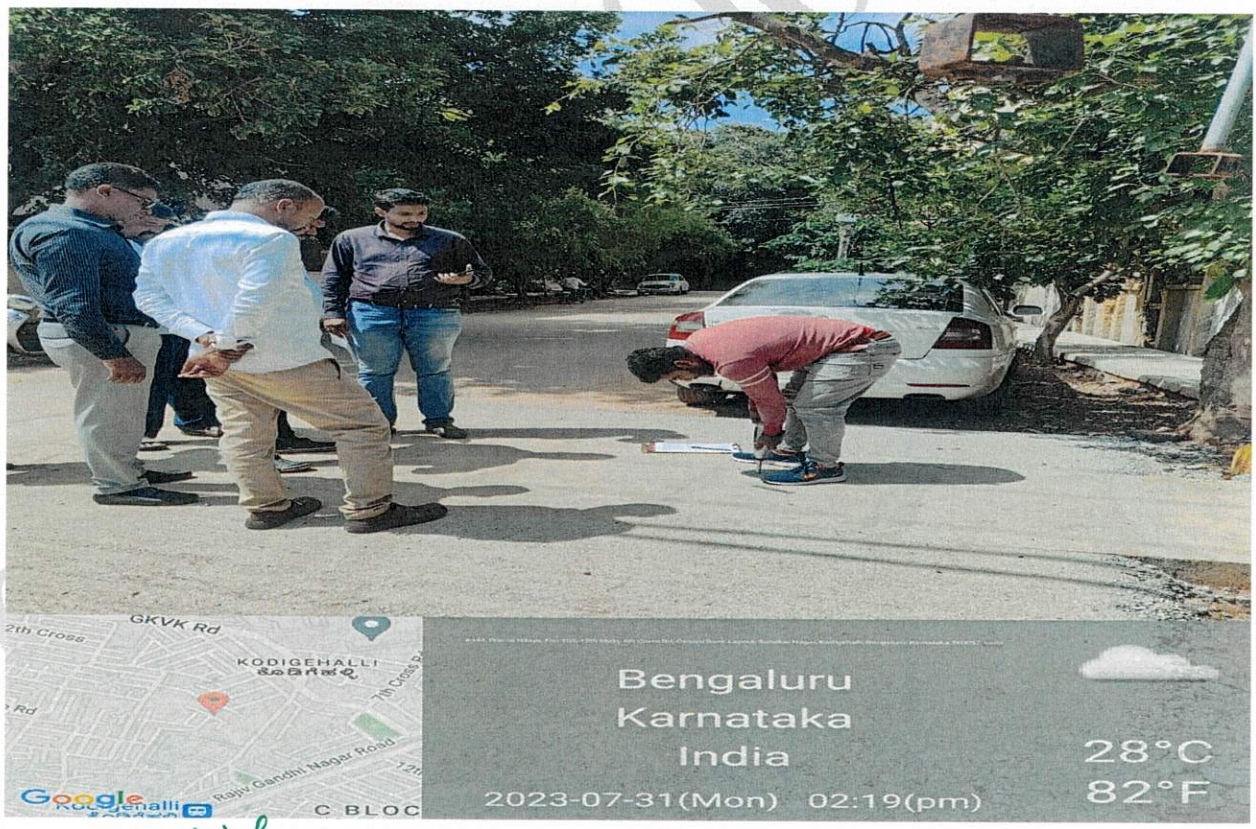
27/9/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

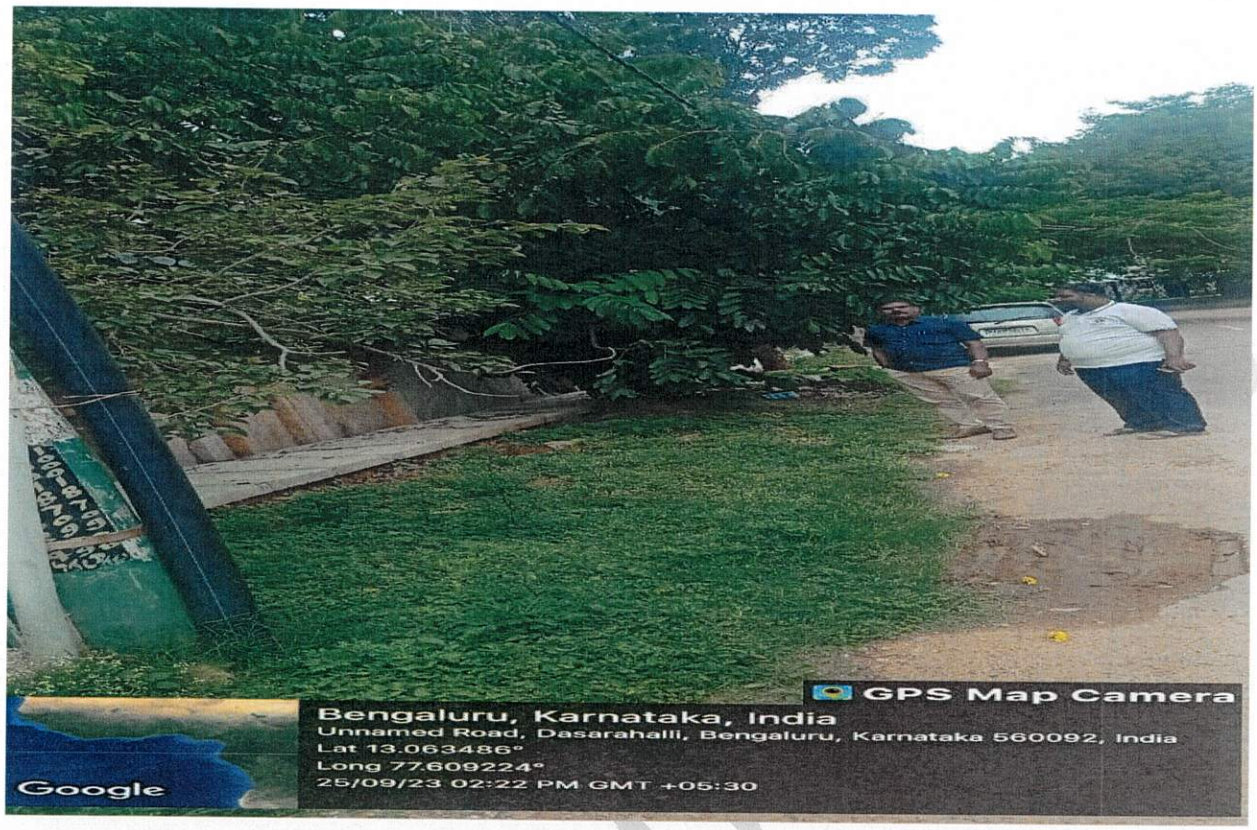




ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

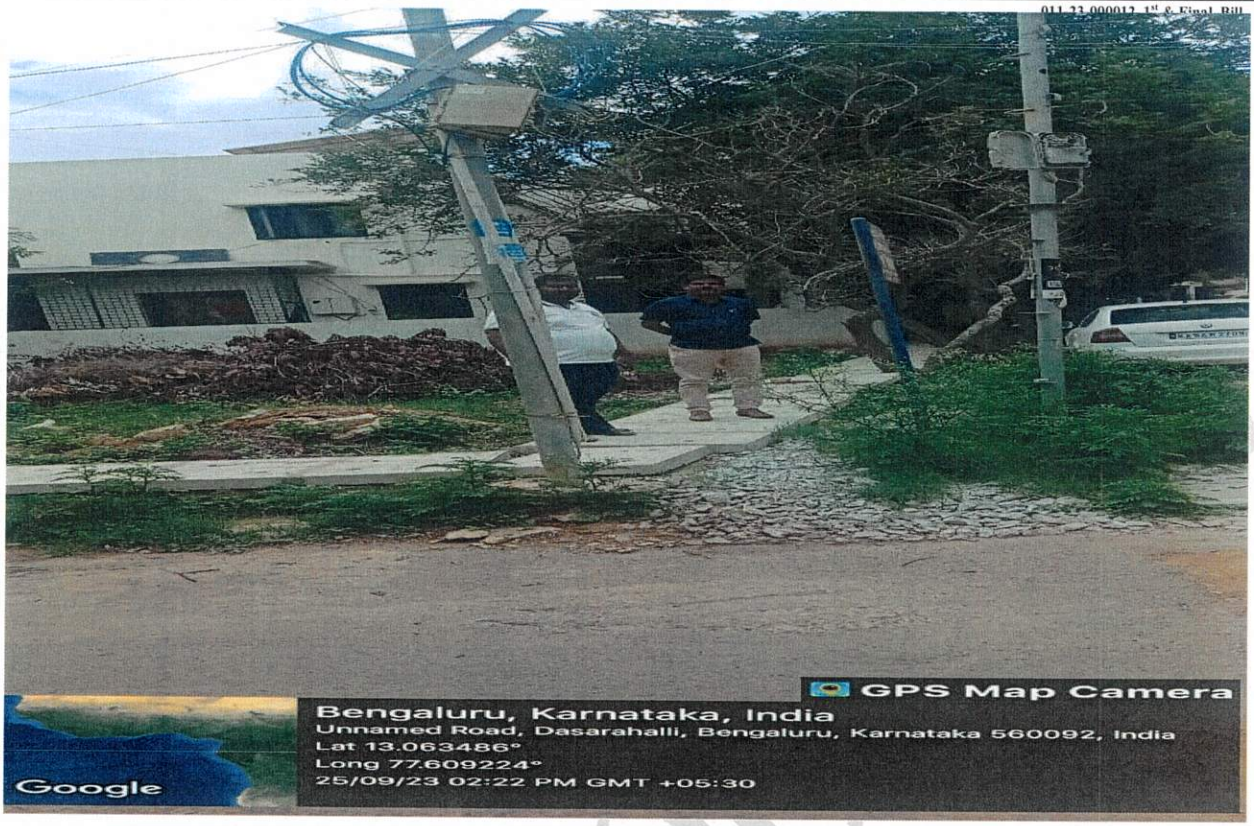
ಸ.ಆ.ಯು.ಕ 27/9/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



K.M. Hallur 27/9/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಮಹಾನಗರ ಪಾಲಿಕೆ



K.M. Hulli
27/9/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

011-23-000012